



DECLARATION AND POWERS OF ATTORNEY

As a below named inventor, I/we hereby declare that my residence, post office address and citizenship is as stated below next to my name. I believe I am the original and first inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled "PROCESSING WELL LOGGING DATA WITH NEURAL NETWORK" the specification, Serial No. PCT/US01/49193, filed December 19, 2001. I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to the examination of this application in accordance with 37 CFR 1.56(a). I hereby claim foreign priority benefits under 35 USC 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate by me or my representatives or assigns for this invention having a filing date before that of the application on which priority is claimed:

Application No. _____ in _____ on _____ priority claimed () Yes () No

Application No. _____ in _____ on _____ priority claimed () Yes () No

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 USC 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

As an authorized representative of the assignee, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith; and as agents to represent me before all the competent international Authorities in connection with any international applications filed with any Receiving Office under the Patent Cooperation Treaty claiming priority to this application, and to make or receive payments on my behalf. WILLIAM E. SHULL, Reg. No. 29,438; MICHAEL D. McCULLY, Reg. No. 29,566, MARK ANDREW SMITH, Reg. No. 30,220, PAUL I. HERMAN, Reg. No. 37,349; WILLIAM M. IMWALLE, Reg. No. 35,904; WILLIAM R. PEOPLES, Reg. No. 25,906, ROBERT A. KENT, Reg. No. 28,626 CRAIG W. RODDY, Reg. No. 36,256; and JOHN W. WUSTENBERG, Reg. No. 35,415 of HALLIBURTON ENERGY SERVICES, INC., P. O. Box 819052, Dallas, Texas 75381-9052 and MICHAEL W. PIPER, Reg. No. 39,800; RODNEY B. CARROLL, Reg. No. 39,624; KRISTIN JORDAN HARKINS, Reg. No. 37,859; GENE C. VALLOW, Reg. No. 40,856; ALBERT C. METRAILER, Reg. No. 27,145; MICHAEL S. BUSH, Reg. No. 31,745; and ARTHUR J. BRADY, Reg. No. 42,356 of CONLEY, ROSE & TAYON, 5700 Granite Parkway, Suite 330, Plano, Texas 75024.

PLEASE ADDRESS ALL
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Full Name of First/Joint Inventor: Dingding ChenInventor's Signature: Dingding Chen Date: 6-26-03Residence: Plano, Texas Citizenship: P.R. CHINA
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Inventor's Signature: _____ Date: _____

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Inventor's Signature: _____ Date: _____

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Inventor's Signature: _____ Date: _____

Residence: Austin, Texas Citizenship: USA
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Inventor's Signature: _____ Date: _____

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As a below named inventor, I hereby declare that my residence, post office address and citizenship is as stated below next to my name. I believe I and Dingding Chen, Luis E. San Martin, Gulamabbas A. Merchant, Robert W. Strickland are the original and co-inventors of the subject matter which is claimed and for which a patent is sought on the invention entitled "PROCESSING WELL LOGGING DATA WITH NEURAL NETWORK" the specification, Serial No. 10/600,991, filed June 19, 2003. I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to the examination of this application in accordance with 37 CFR 1.56(a). I hereby claim foreign priority benefits under 35 USC 119 or 120 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate by me or my representatives or assigns for this invention having a filing date before that of the application on which priority is claimed:

Application No. 60/256,679 on December 19, 2000 priority claimed (X) Yes () No

Application No. 60/299,002 on June 18, 2001 priority claimed (X) Yes () No

Application No. PCT/US01/49193 on December 19, 2001 priority claimed (X) Yes () No

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 USC 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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Inventor's Signature: Martin T. Hagan Date: 2/24/04

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